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APPLICATION N	Ю.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/662,195		09/12/2003	Dae-Ig Chang	3364P138	9367	
8791	7590	10/17/2006		EXAM	EXAMINER	
		OLOFF TAYLOR BOULEVARD	LU,	LU, JIA		
SEVENT				ART UNIT	PAPER NUMBER	
LOS ANO	GELES, (	CA 90025-1030		2611		
				DATE MAILED: 10/17/200	6	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	
	10/662,195	CHANG ET AL.	
Office Action Summary	Examiner	Art Unit	
	Jia W. Lu	2611	
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	correspondence address	5
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D.  Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  If NO period for reply is specified above, the maximum statutory period to Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from a, cause the application to become ABANDONE	N. nely filed the mailing date of this commun D (35 U.S.C. § 133).	
Status			
1) ☐ Responsive to communication(s) filed on 12 S     2a) ☐ This action is FINAL. 2b) ☐ This     3) ☐ Since this application is in condition for allowed closed in accordance with the practice under E	s action is non-final. nce except for formal matters, pro		its is
Disposition of Claims			
4) ☐ Claim(s) 1-6 is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) 3-6 is/are allowed. 6) ☐ Claim(s) 1 is/are rejected. 7) ☐ Claim(s) 2 is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or Application Papers  9) ☐ The specification is objected to by the Examine 10) ☐ The drawing(s) filed on 12 September 2003 is/Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) ☐ The oath or declaration is objected to by the Examine 11) ☐ The oath or declaration is objected to by the Examine 11) ☐ The oath or declaration is objected to by the Examine 11) ☐ The oath or declaration is objected to by the Examine 11) ☐ The oath or declaration is objected to by the Examine 11 ☐ The oath or declaration is objected to by the Examine 11 ☐ The oath or declaration is objected to by the Examine 11 ☐ The oath or declaration is objected to by the Examine 12 ☐ The oath or declaration is objected to by the Examine 13 ☐ The oath or declaration is objected to by the Examine 13 ☐ The oath or declaration is objected to by the Examine 13 ☐ The oath or declaration is objected to by the Examine 14 ☐ The oath or declaration is objected to by the Examine 15 ☐ The oath or declaration is objected to by the Examine 15 ☐ The oath or declaration is objected to by the Examine 15 ☐ The oath or declaration is objected to by the Examine 15 ☐ The oath or declaration is objected to by the Examine 15 ☐ The oath or declaration is objected to by the Examine 15 ☐ The oath or declaration is objected to by the Examine 15 ☐ The oath or declaration is objected to by the Examine 15 ☐ The oath or declaration is objected to by the Examine 15 ☐ The oath or declaration is objected to by the Examine 15 ☐ The oath or declaration is objected to by the Examine 15 ☐ The oath or declaration is objected to by the Examine 15 ☐ The oath or declaration is objected to by the Examine 15 ☐ The oath or declaration is objected to by the Examine 15 ☐ The oath or decla	or election requirement. er. are: a)⊠ accepted or b)⊡ object drawing(s) be held in abeyance. Se tion is required if the drawing(s) is ob	e 37 CFR 1.85(a). ejected to. See 37 CFR 1.	121(d).
Priority under 35 U.S.C. § 119			
a) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of:  1. ☐ Certified copies of the priority document 2. ☐ Certified copies of the priority document 3. ☐ Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	s have been received. Is have been received in Applicat rity documents have been receive u (PCT Rule 17.2(a)).	ion No ed in this National Stag	e
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal F 6) Other:	ate	

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### **DETAILED ACTION**

# Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 1. Claim 1 is rejected under 35 U.S.C. 102(e) as being anticipated by US application publication 2002/0161560. '560 describes a receiver comprising log-likelihood ratio calculators (paragraph 0076) reflecting channel estimation errors (paragraph 0108), and positive and negative numbers (paragraph 0094), a subtractor (figure 1, element 22), and a comparator for determining state of the received signal (element 24, paragraphs 0094, 0096).

## Allowable Subject Matter

- 2. Claim 2 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- 3. Claims 3-6 are allowed.

#### Conclusion

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jia W. Lu whose telephone number is 571-272-6042.

The examiner can normally be reached on Mon- Fri, 10:30AM-6:30PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chieh M. Fan can be reached on (571)272-3042. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Jia Lu Examiner

SUPERVISORY PATENT EXAMINER